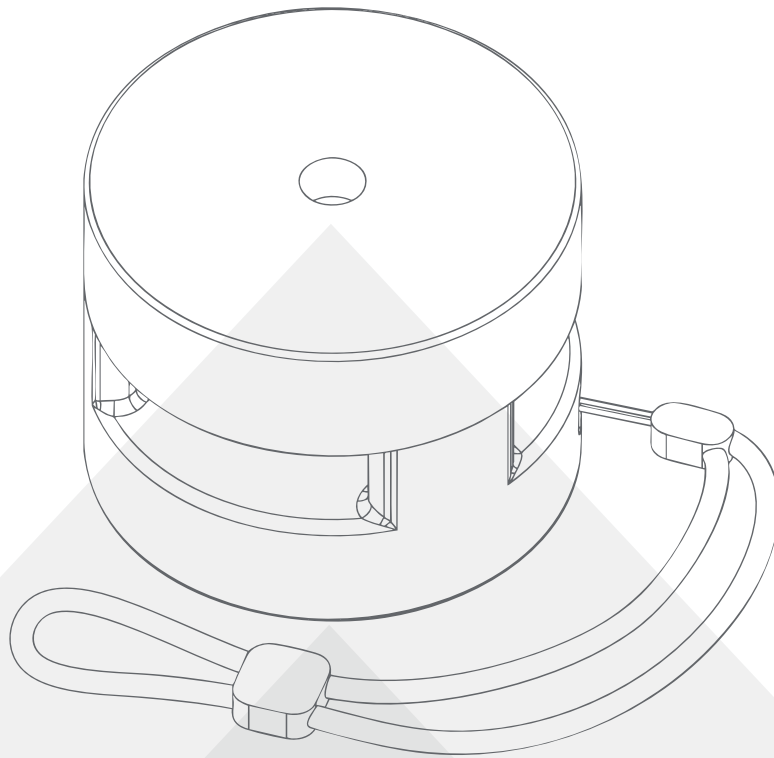


User manual

WEATHERDOT BALLISTICS WEATHER STATION · CMI1084

English version
July 2026



Index

1 Product Overview	3
2 Package Content.....	3
3 Technical Specifications	3
3.1 Weather data.....	3
3.2 Power consumption	4
3.3 Parameters	4
3.4 Data Output: Bluetooth and Firmware.....	4
3.5 Sensors	4
3.6 Dimensions	4
3.7 Materials	5
3.8 Mount	5
3.9 Environmental	5
3.10 Compatible Devices	5
4 Functions	5
5 Installation	6
5.1 Installing the Unit.....	6
5.2 How to Use.....	6
6 Troubleshooting.....	7
6.1 Troubleshooting Battery.....	7
6.2 Troubleshooting Bluetooth Connection	7
6.3 Troubleshooting Sensor Accuracy	8
7 AnemoTracker App	8
8 AnemoTracker Configure & Update App	8
9 Compatible Apps.....	8
10 Developers.....	8
11 General Information.....	9
11.1 General Recommendations	9
11.2 Maintenance and Repair	9
11.3 Warranty.....	9

1 Product Overview

The Weatherdot Ballistics is a mini, compact and light-weight weather station that provides users with temperature, humidity and pressure and sends the data to the free AnemoTracker App for viewing and for logging data.

2 Package Content

The package contains the following:

- Weatherdot Ballistics instrument.
- Wireless charging Qi.
- Travel pouch.
- Serial number on the packaging.
- A user guide at www.ballisticswindmeters.com with all useful information for the customer, linked via a QR code on the packaging.

NOTE

It is recommended to keep the box; it contains the serial number.

IMPORTANT NOTE

Before relying on the Weatherdot Ballistics for extended use, especially in challenging locations, **please thoroughly test the device** to ensure it functions correctly without errors or issues.

We recommend testing the unit in an easily accessible location to confirm its accuracy. Always test it **outside of the packaging**.

3 Technical Specifications

The Weatherdot Ballistics has the following technical specifications:

3.1 Weather data

TEMPERATURE	
Range	-15 to 60 °C (5 to 140 °F)
Accuracy	±0.5 °C at 25 °C (±0.9 °F)
Resolution	0.01 °C (32 °F)

HUMIDITY	
Range	10 – 90%
Accuracy	±3.5%
Resolution	1%

PRESSURE	
Range	500 to 1200 hPa
Accuracy	±1 hPa
Resolution	0.1 hPa

3.2 Power consumption

Type	Battery-powered
Battery life (active use)	Up to 700 hours with full charge
Battery life (standby)	2,000 hours (advertising)
Charging	Wireless Qi (charge upside down)
Charge time	~1 hour



NOTE

To check battery level, connect to the AnemoTracker App. The level is shown in the side menu. Not recommended to use any other wireless charger than the one provided from the manufacturer. We highly recommend to charge the unit before using it. Charge the device upside down. Charging should take around 1 hour. It is not recommended to leave the unit charging for extended periods.

3.3 Parameters

Sample rate	1 Hz
Configurable units via AnemoTracker App	
Temperature	Celsius, Fahrenheit or Kelvin
Humidity	Percentage (%)
Pressure	hPa, inHg, mmHg, kPa, atm



3.4 Data Output: Bluetooth and Firmware

BLUETOOTH		FIRMWARE	
Version	BLE 5.1 or beyond	Upgrade	Via Bluetooth
Range	~30 m in open space or 98 feet (no interference)	Download	AnemoTracker Configure&Update

The Weatherdot Ballistics incorporates Bluetooth Low Energy (BLE) technology, providing reduced power consumption while maintaining a similar communication range.

3.5 Sensors

Temperature, humidity and pressure sensor	SHT40, DPS368 & NTCLE350E4103FHBO
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3.6 Dimensions

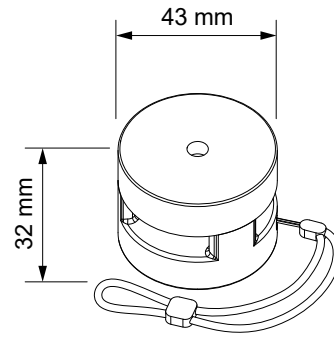
Dimensions and weight make the Weatherdot Ballistics, compact and easy-to-use product.

Diameter	43 mm (1.69 in.)
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Height	32 mm (1.26 in.)
Weight	40 g (1.41 oz.)

3.7 Materials

Main material	Injected engineering plastic (grey)
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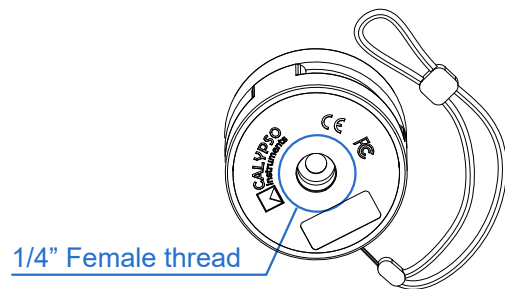
3.8 Mount

MOUNTING		ACCESSORIES	
Thread	1/4" Female thread	Mast mount	CMI1028
Tripod mount	Included	Phone mount	CMI1023

A wide range of accessories can be used with the device, visit our website www.ballisticswindmeters.com and check all the accessories available and their possible combinations.

3.9 Environmental

IP Protection grade	IP65
Temperature range	-15 to 60 °C (5 to 140 °F)
Humidity range	10 – 90% HR



3.10 Compatible Devices

Android	Bluetooth 5.1 or beyond
iPhone	4S or beyond
iPad	3rd generation or beyond

Visit www.ballisticswindmeters.com for the latest compatibility information.

4 Functions

The Weatherdot Ballistics will allow you to perform a great diversity of operations adapting to your needs.

It will provide you information about everything that is shown below through the application AnemoTracker App, but the most important aspects that facilitate the unit are the following:

- Temperature
- Humidity
- Pressure
- Data logging – Collected data can be stored in the memory of the application, exported and shown on graphs.

NOTE

For full information on using the AnemoTracker App, visit www.ballisticswindmeters.com and download the latest app manual.

5 Installation

5.1 Installing the Unit

The Weatherdot Ballistics is a compact and portable weather station that you can place wherever you want to get temperature, humidity, and pressure readings. Make sure the battery is charged and keep the device clean for optimal performance.

Below are details on how to get started.

5.2 How to Use

Step 1 — Remove the unit from the packaging

- Remove the device from its case and protective element and keep it out throughout the usage cycle.

NOTE

Keeping the device inside its packaging during setup and use will cause erroneous measurements. Always use it **outside of the packaging**

Step 2 — Charge the Ultrasonic device.

- Place the unit on the base of the wireless charger upside down (tripod screw and lanyard facing up).
- Charge for 1 hour until full.

The following shows the usage sequence for the Qi wireless charger:



1. Connect the Qi charger to a power source
2. Place the Ultrasonic face down on the charging base.
3. The charger will begin charging and will display a rapid rainbow sequence for as long as the Ultrasonic remains on the charging base.
4. When the ultrasonic device is removed, the color sequence will slow down for a few seconds, indicating that the device has been removed.
5. After a few seconds the base returns to its standby state, with no active light.

NOTE

Allow the device to stabilize after charging. Using the unit immediately after charging may affect measurement accuracy. Wait a few minutes before use

Step 3— Install the AnemoTracker App

- Make sure your device has Bluetooth enabled. The device requires BLE 5.1. Compatible: Android 4.3+, iPhone 4S+, iPad 2+.
- Download the AnemoTracker App from Google Play or the Apple Store.
- Open the App, slide right to open settings, and press the Pair Portable button.
- All Ultrasonic Portable devices within range appear. Select the one matching the MAC number on your box.

WARNING

Each unit can only be connected to one device at a time. Disconnect from the current device first to allow pairing with another.

Step 4 — If your device will be exposed to sunlight: Spin it.

- Spin the Ultrasonic Portable device by its lanyard in a full circle for 80 seconds to obtain accurate temperature, pressure and humidity readings.
- Always maintain a firm grip on the lanyard.

Step 5— Pair your device and use it.

- Once the App is installed start it and click on the three lines on the bottom left-hand corner to open settings
- Press the Pair Weatherdot Ballistics button. All Ultrasonic Portable units within range appear. If no device is shown, swipe down on “Scanning for wind device” screen.
- Select your device and connect. Select the one matching the MAC number on your box. If your device connects with your Ultrasonic Portable unit correctly, continue with the normal installation. If not, please go to section 6 [Troubleshooting](#)

Step 6— Disconnect your device.

- To avoid draining the battery, unpair your device from the App. This will keep your unit off.

6 Troubleshooting

6.1 Troubleshooting Battery

If you don't see your device in the App:

- Make sure the unit is not in Off mode (unit off when battery is empty).
- There will be no battery level shown when trying to connect to the device in AnemoTracker App. Charge your device.

6.2 Troubleshooting Bluetooth Connection

If your compatible device cannot connect:

- Make sure Bluetooth mode is running on your smartphone, tablet or PC.
- Make sure no other mobile device is already linked to your unit.

- Make sure you are within BLE range (~30 meters).

WARNING

Each unit can only be connected to one device at a time. Disconnect from the current device first to allow pairing with another.

6.3 Troubleshooting Sensor Accuracy

If data is inaccurate:

- Make sure the unit has been spun for 80 seconds.
- Make sure no debris is around or near the sensors.

You can review [11.1 General Recommendations](#).

If the problem persists, contact: sales@calypsoinstruments.com

7 AnemoTracker App

The Weatherdot Ballistics is designed to be used with the AnemoTracker App, which provides temperature, humidity and pressure data, and allows data logging for future viewing. The app offers a variety of interfaces suited to different use cases.

For more information, download the latest app manual from www.ballisticswindmeters.com

8 AnemoTracker Configure & Update App

Keeping your Weatherdot Ballistics up to date is essential for ensuring optimal performance and accurate weather data collection.

You can update your Weatherdot Ballistics by downloading the AnemoTracker Configurator & Update app (Android and iOS).

Stay up-to-date, get accurate data. Regular updates ensure your Weatherdot Ballistics is running the latest firmware, improving both reliability and functionality.

WARNING

Before updating your device, check for a new version. There's no need to update if a new version isn't available.

For more information, download the latest version from www.ballisticswindmeters.com

9 Compatible Apps

We constantly work on making the product compatible with a great diversity of Applications.

To see compatible Apps visit the product tab in our website www.ballisticswindmeters.com

10 Developers

Our hardware is open source. We welcome third-party software and hardware companies to seamlessly integrate our products into their platforms.

For more information, please contact us through our [web form](#) or at sales@calypsoinstruments.com

11 General Information

11.1 General Recommendations

If mounting the unit using the tripod or mast mount accessories, install it in a location free from obstructions and away from direct heat sources or enclosed spaces that could affect temperature, humidity or pressure readings.

- Do not attempt to access the sensors area with your fingers.
- Do not attempt any modification to the unit.
- Never paint any part of the unit or alter its surface in any way.
- Do not charge with any other wireless charger than the one provided by the manufacturer.

11.2 Maintenance and Repair

The unit requires minimal maintenance thanks to its design with no moving parts.

- Avoid exposing the sensor vents to dust, debris or liquids, as this may affect temperature, humidity or pressure readings.
- Wipe clean with a damp cloth, avoiding the sensor area.

11.3 Warranty

This Warranty covers defects from defective parts, materials, and manufacturing if reported within 3 years of purchase date.

Warranty is void in case of non-following the instructions of use, repair or maintenance without written authorisation:

- Any harm caused to device by accident will not be covered by the warranty.
- Using assembly elements different from those delivered with the product will void the warranty.
- Do not attempt to access the sensors area with your fingers.
- Do not attempt any modification to the unit.
- Never paint any part of the unit or alter its surface in any way.
- Do not charge with any other wireless charger than the one provided by the manufacturer.

For further information please contact Calypso Technical Support through sales@calypsoinstruments.com or visit www.ballisticswindmeters.com.